## **EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	48311	((spin adj bulb) or mr or mre or DOMR or magneto adj resist\$5 or magnetoresist\$5 or amr or magnetic\$4 adj resist\$5 or gmr\$1 or spin adj valve\$1 or svmr\$1 or tjmr\$1 or tmj\$1 or g11b005/39.ipc. or g11b005/33.ipc or g11b005/127.ipc or tmr or mram or magnetic adj memory or magnetic adj random adj access adj memory or TJM or macro adj magnetoresist\$5 or macromagnetoresist\$5 or piggyback or ((composite or combination or merged) adj4 head\$1))	EPO; JPO; DERWENT	OR	OFF	2006/06/13 16:16
L2	66558	((read\$3 near2 head\$1) or (spin adj bulb) or mr or mre or DOMR or magneto adj resist\$5 or magnetoresist\$5 or amr or magnetic\$4 adj resist\$5 or gmr\$1 or spin adj valve\$1 or svmr\$1 or tjmr\$1 or tmj\$1 or g11b005/39.ipc. or g11b005/33.ipc or g11b005/127.ipc or tmr or mram or magnetic adj memory or magnetic adj random adj access adj memory or TJM or macro adj magnetoresist\$5 or macromagnetoresist\$5 or piggyback or ((composite or combination or merged) adj4 head\$1))	EPO; JPO; DERWENT	OR	OFF	2006/06/13 16:17
L3	3086136	(tribo\$ or breakdown\$1 or break adj down\$1 or discharg\$4 or electrostatic\$6 or static\$ or short\$3 or ESD or potential or voltage or overvoltage\$1 or overcurrent\$1 or EOS or electric\$3 adj2 overstress\$3 or electro-static\$ or electro adj static or pinhole\$1 or pin adj hole\$1 or charge\$1 near3 buildup or charge\$1 near3 build adj up or antistatic\$5 or anti adj static\$5 or arcing)	EPO; JPO; DERWENT	OR	OFF	2006/06/13 19:55
L4	240136	shield\$3 or (flux near2 guide\$1) or undershield\$3 or overshield\$3	EPO; JPO; DERWENT	OR	OFF	2006/06/13 16:19
L5	9583	2 and 3	EPO; JPO; DERWENT	OR	OFF	2006/06/13 16:20
L6	640	4 and 5	EPO; JPO; DERWENT	OR	OFF	2006/06/13 19:09
L7	35	(alumina or sapphire) near3 slider	EPO; JPO; DERWENT	OR	OFF	2006/06/13 19:20

## **EAST Search History**

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L8	255991	conduct\$5 near3 (film\$1 or coating\$1 or layer\$1)	EPO; JPO; DERWENT	OR	OFF	2006/06/13 19:37
L9	108318	Minislider\$1 or microslider\$1 or nanoslider\$1 or picoslider\$1 or slider\$1 or ((air or aerodynamic\$6 or hydrodynamic\$6 or float\$3 or fly\$3 or flies or aero adj dynamic\$6 or hydro adj dynamic\$6 or ABS or levitat\$5) near5 (head or transduc\$ or read adj write)) or (g11b005/60 or g11b021/21 or g11b017/32).ipc.	EPO; JPO; DERWENT	OR	OFF	2006/06/13 19:22
L10	89214	ABS or ((air or bearing) near2 surface\$1)	EPO; JPO; DERWENT	OR	OFF	2006/06/13 19:22
L11	113	8 and 9 and 10	EPO; JPO; DERWENT	OR	OFF	2006/06/13 19:23
L12	50910	((conduct\$5 or carbon) near3 (film\$1 or coating\$1 or layer\$1)).ti,ab.	US-PGPUB; USPAT	OR	OFF	2006/06/13 19:38
L13	300	360/235.2.ccls. or 360/235.8.ccls. or 360/236.6.ccls.	US-PGPUB; USPAT	OR	OFF	2006/06/13 19:40
L14	16	12 and 13	US-PGPUB; USPAT	OR	OFF	2006/06/13 19:55
L15	24591	(mr or DOMR or mre or magneto adj (resistiv\$3 or resistance\$1) or magnetoresist\$5 or amr or magnetic\$4 adj (resistiv\$3 or resistance\$1) or gmr\$1 or spin adj valve\$1 or symr\$1 or tjmr\$1 or tmj\$1 or tmr or mram or magnetic adj memory or magnetic adj random adj access adj memory or DSV or TJM or macro adj magnetoresist\$5 or macromagnetoresist\$5 or piggyback or ((composite or combination or merged) adj4 head\$1)).ti,ab,clm. or "360/113" or 360/313-327.33.ccls. or 338/32\$2.ccls. or 324/207.21.ccls. or 324/252.ccls. or 365/171.ccls. or 365/173.ccls. or 428/811-811.5.ccls. or 148/108.ccls.	US-PGPUB; USPAT	OR	OFF	2006/06/13 19:55
L16	453439	((tribo\$ or breakdown\$1 or break adj down\$1 or discharg\$4 or electrostatic\$6 or static\$ or short\$3 or ESD or potential or voltage or overvoltage\$1 or overcurrent\$1 or EOS or electric\$3 adj2 overstress\$3 or electro-static\$ or electro adj static or pinhole\$1 or pin adj hole\$1 or charge\$1 near3 build adj up or antistatic\$5 or anti adj static\$5 or arcing)).ti,ab.	US-PGPUB; USPAT	OR	OFF	2006/06/13 19:57

## **EAST Search History**

L17	2634	15 and 16	US-PGPUB; USPAT	OR	OFF	2006/06/13 19:58
L18	47066	"360"/\$.ccls.	US-PGPUB; USPAT	OR	OFF	2006/06/13 19:58
L19	755	17 and 18	US-PGPUB; USPAT	OR	OFF	2006/06/13 19:58
L20	87772	shield\$3.ti,ab,clm.	US-PGPUB; USPAT	OR	OFF	2006/06/13 19:58
L21	325	17 and 20	US-PGPUB; USPAT	OR	OFF	2006/06/13 19:59